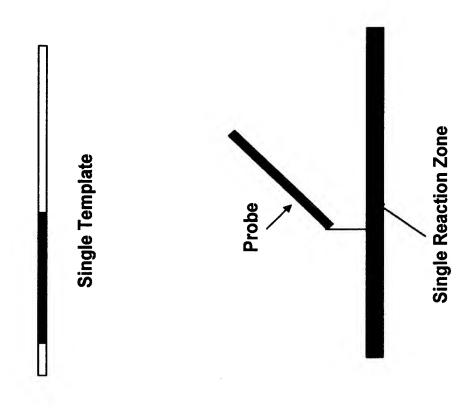
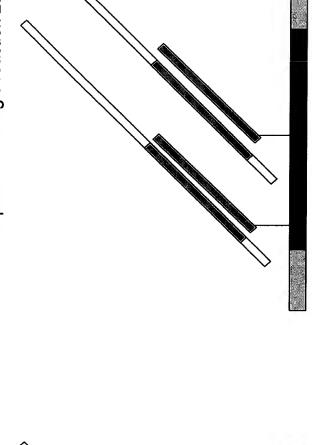
Southern 1 - The components

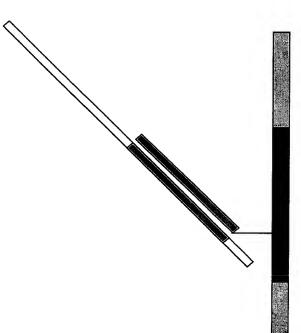


Southern 2 – Hybridising a template to probe present in a reaction zone

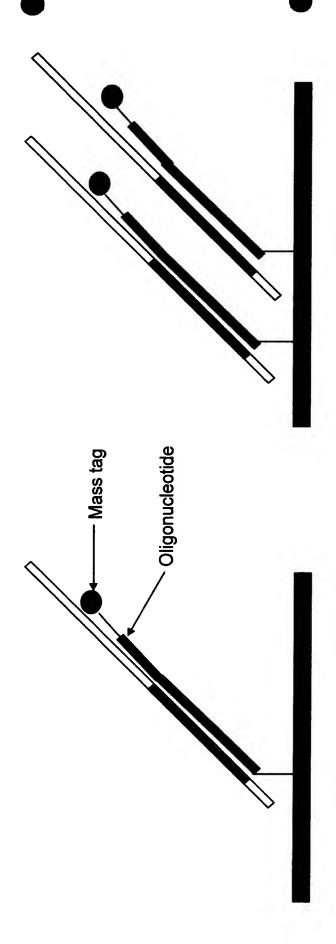
Method disclosed in Southern

Diagram showing why the method of Southern does not permit sequencing of two templates in a single reaction zone



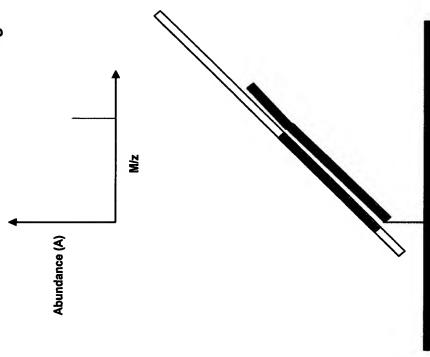


Southern 3 - Ligating Mass Tagged Oligonucleotides



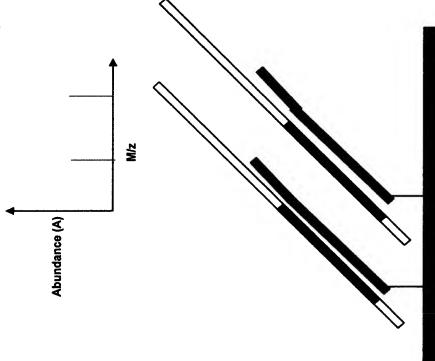
Southern 4 - Cleave, Desorb and Detect Mass Tags

Mass spectrum showing mass and abundance of released mass tags



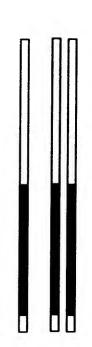
The mass tag detected is used to identify the sequence of the template adjacent to the region complementary to the probe

Mass spectrum showing mass and abundance of released mass tags

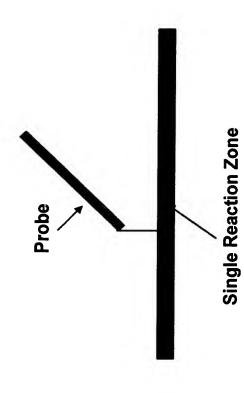


The mass tag detected cannot be assigned to a template and therefore, no sequence information can be obtained for either template

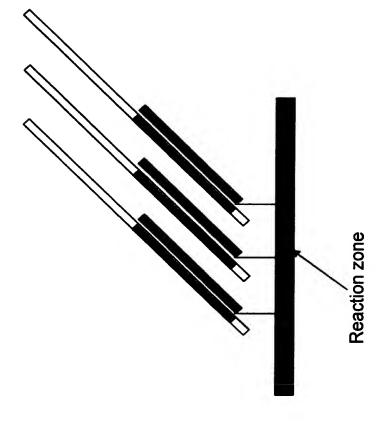
Schmidt & Thompson 1 - The components



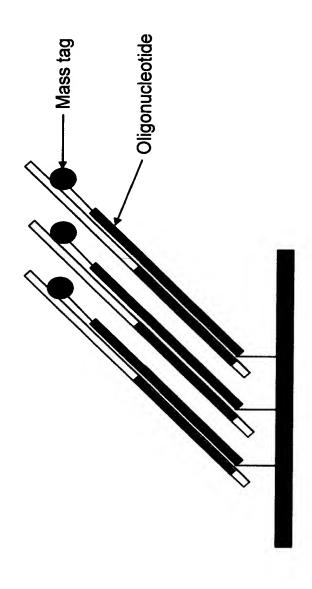
2 or more Templates in different quantities



Schmidt & Thompson 2 - Hybridising templates to a probe present in a reaction zone



Schmidt & Thompson 3 - Ligating Mass Tagged Oligonucleotides



Schmidt & Thompson 4 - Cleave and Detect Mass Tags

Mass Spectrum showing mass and abundance of mass tags

the sequence of the corresponding The abundance of each mass tag template to which it relates. Each mass tag is then used to identify detected is used to identify the template.

